

Class 2 Dimmable LED Driver Magnitude E Series

P/N: E

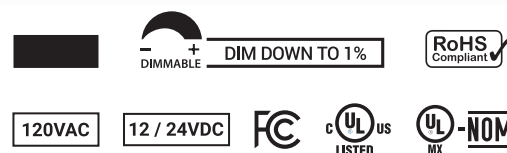
Constant Voltage Electronic Phase Dimmable LED Driver

The E-SERIES Listed is an electronic Class 2, phase dimmable, LED driver with a low profile aluminum case, making it the perfect choice for tape lighting, kick/cove lighting, under cabinet lighting and multiple other residential and commercial lighting applications. The UL Listed enclosure includes a wiring compartment with two ½" knockouts for easy installation, eliminating the need for a separate junction box. The driver features auto reset, over current and short circuit protection as well as an efficiency over 90% -- resulting in low operating case temperature. The E-SERIES Listed is phase-dimmable down to 1% with leading edge TRIAC dimmers.



6.77" L x 2.67" W x 1.30"H

- Installation:** Surface-Mount Junction Box with Multiple ½" Knock-Outs
- Driver Types:** Class 2 Single Channel
- Dimming:** Phase Dimmable Down to 1% with Leading Edge TRIAC Dimmer
- Input Voltage:** 120VAC, 50/60Hz
- Output Voltage:** 12VDC or 24VDC Available
- Environmental:** NEMA 3R
- Listing:** UL Listed
- Certifications:** UL 8750, CSA C22.2 No. 250 13-14
- Warranty:** 5-Year Warranty



E-SERIES is also available in:

- E-SERIES UL Recognized
- EZJ-BOX
- JB-SERIES

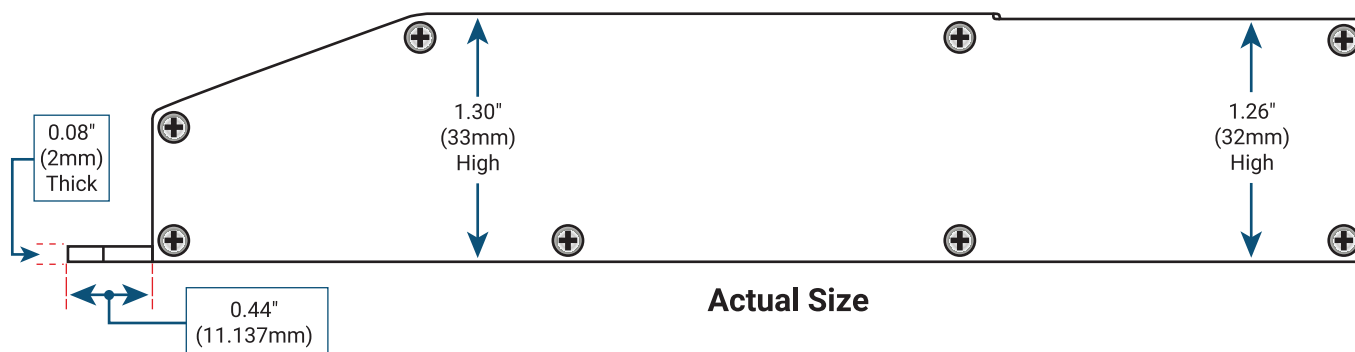
Refer to Magnitudeinc.com for more details.

Ordering Guide (Example: E96L24DC)

E L DC

Type	Max Power	Listing	Output
E – E-Series	20 – 20W 40 – 40W 60 – 60W 75 ¹ – 75W 96 ¹ – 96W	L – UL Listed Enclosure	12DC – 12VDC 24DC – 24VDC
	124VDC Only		

Dimensions	
Length	6.77" (171.9mm)
Width	2.67" (67.8mm)
Height	1.30" (33.0mm)



* Parameters tolerance +/- 7%



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Specifications

Input

Input Voltage Range	120VAC ± 10%				
Input Frequency	50 / 60Hz	50 / 60Hz	50 / 60Hz	50 / 60Hz	50 / 60Hz
Input Current	0.20A@120VAC (12VDC) 0.20A@120VAC (24VDC)	0.41A@120VAC (12VDC) 0.41A@120VAC (24VDC)	0.61A@120VAC (12VDC) 0.61A@120VAC (24VDC)	0.72A@120VAC	0.85A@120VAC
Efficiency	> 90% (12VDC) > 90% (24VDC)	> 90% (12VDC) > 90% (24VDC)	> 90% (12VDC) > 90% (24VDC)	> 90%	> 90%
Power Factor	0.95	0.95	0.95	0.95	0.95

Output

Max Load	20W	40W	60W	75W	96W
Output Voltage @ Max Load	12.0VDC 24.0VDC	12.0VDC 24.0VDC	12.0VDC 24.0VDC	24.0VDC	24.0VDC
Output Current @ Max Load	1.7A (12VDC) 0.90A (24VDC)	3.50A (12VDC) 1.75A (24VDC)	5.00A (12VDC) 2.63A (24VDC)	3.3A	4.16A

Environmental

Max Ambient Temperature	-30°C - +65°C (-22°F - 122°F)
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Dimming

Minimum Dimming Level	1%	1%	1%	1%	1%
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Protection

Circuit Breaker	Short Circuit & Over-Voltage Auto-Reset
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Mechanical Housing

Primary Leads	18 AWG	18 AWG	18 AWG	18 AWG	18 AWG
Secondary Leads	14 AWG	14 AWG	14 AWG	14 AWG	14 AWG
Length	6.77" (171.9mm)	6.77" (171.9mm)	6.77" (171.9mm)	6.77" (171.9mm)	6.77" (171.9mm)
Width	2.67" (67.8mm)	2.67" (67.8mm)	2.67" (67.8mm)	2.67" (67.8mm)	2.67" (67.8mm)
Height	1.30" (33.0mm)	1.30" (33.0mm)	1.30" (33.0mm)	1.30" (33.0mm)	1.30" (33.0mm)
Weight	9 oz. (255g)	9 oz. (255g)	9 oz. (255g)	9 oz. (255g)	9 oz. (255g)
Housing Material	Coated Metal	Coated Metal	Coated Metal	Coated Metal	Coated Metal
Housing Color	Black	Black	Black	Black	Black
Junction Box	Yes	Yes	Yes	Yes	Yes
Mounting	One-Hole Flange Mount, 2 Key Holes in Wire Housing				

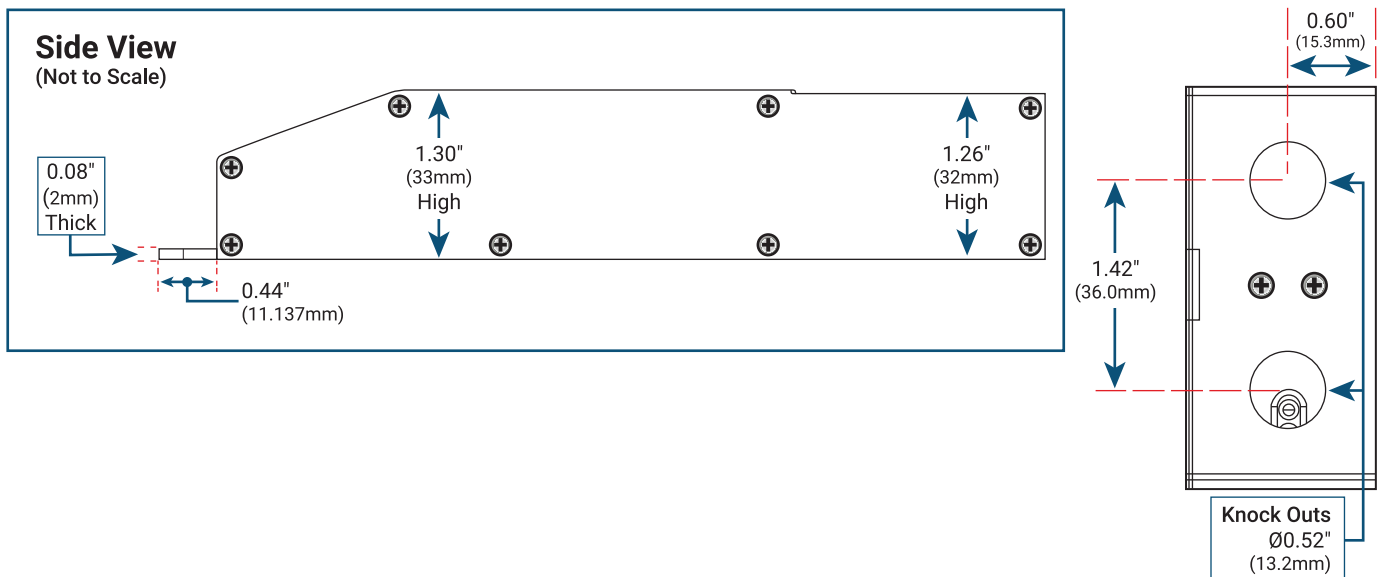
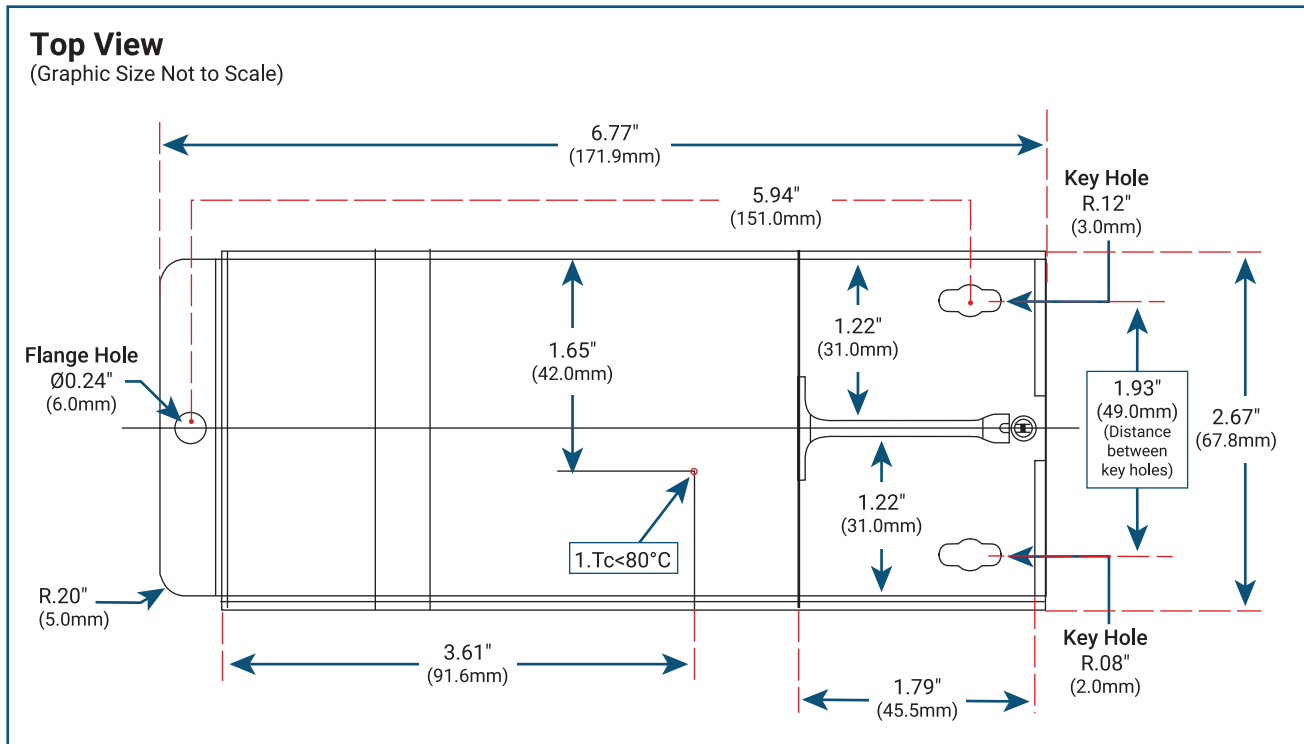
Approval Markings

Certificates/Approval Signs	UL8750 Class 2	UL8750 Class 2	UL8750 Class 2	UL8750 Class 2	UL8750 Class 2
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* Parameters tolerance +/- 7%

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Mechanical Diagrams E-Series Listed Drivers with Wire Housing

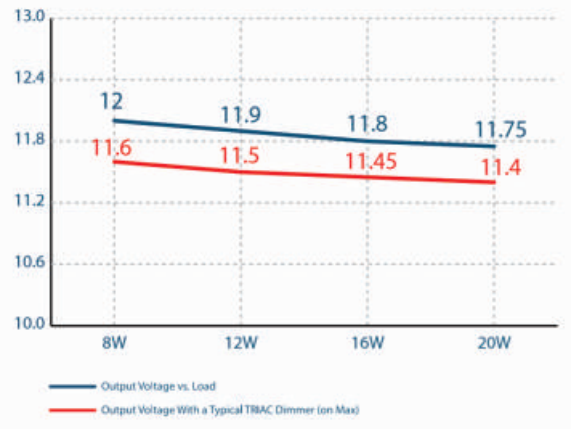


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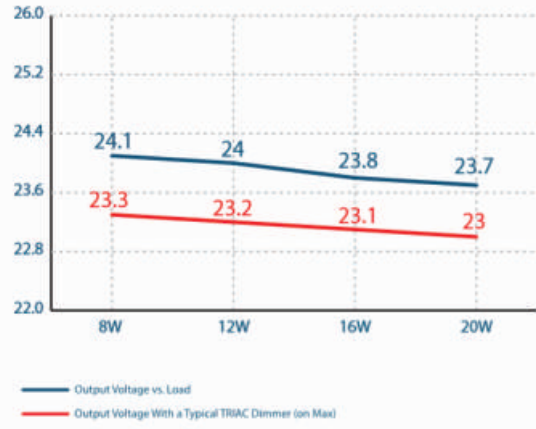
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Load Regulation

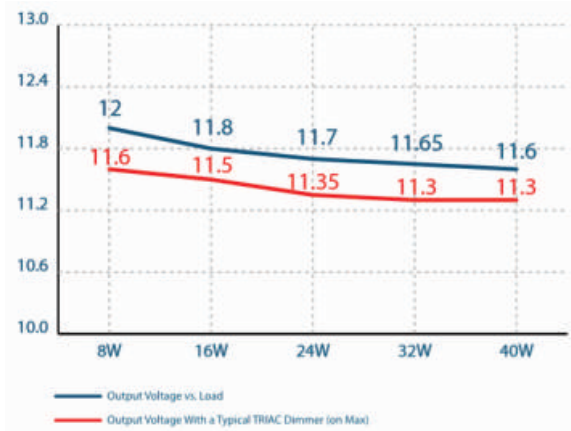
20W (12VDC)



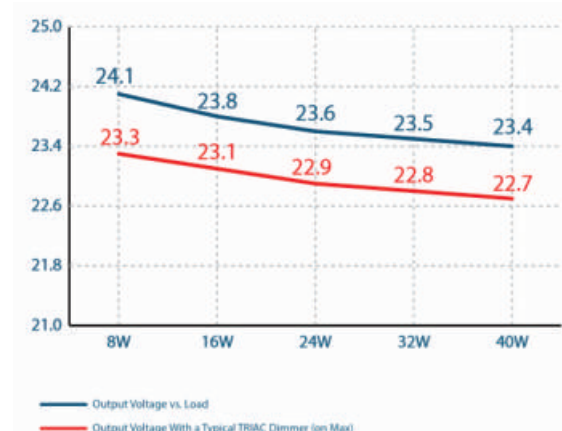
20W (24VDC)



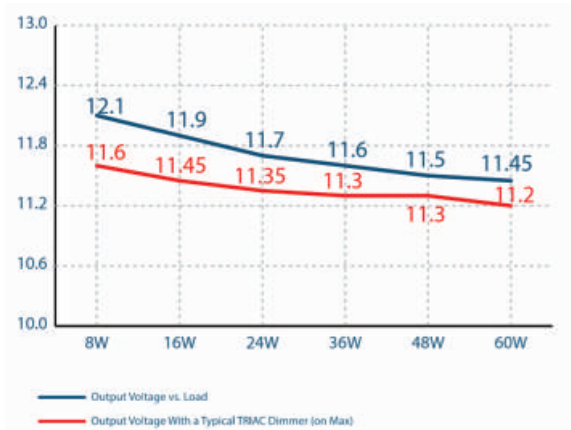
40W (12VDC)



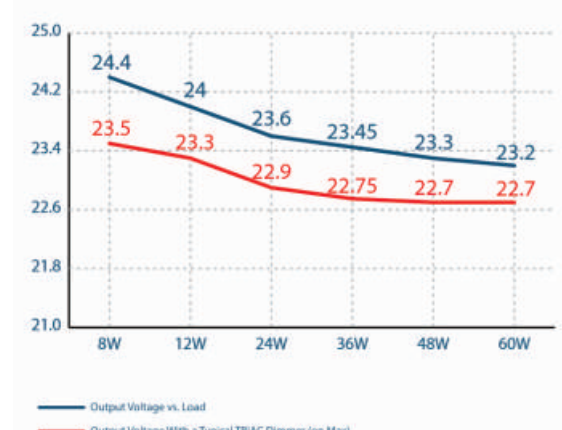
40W (24VDC)



60W (12VDC)



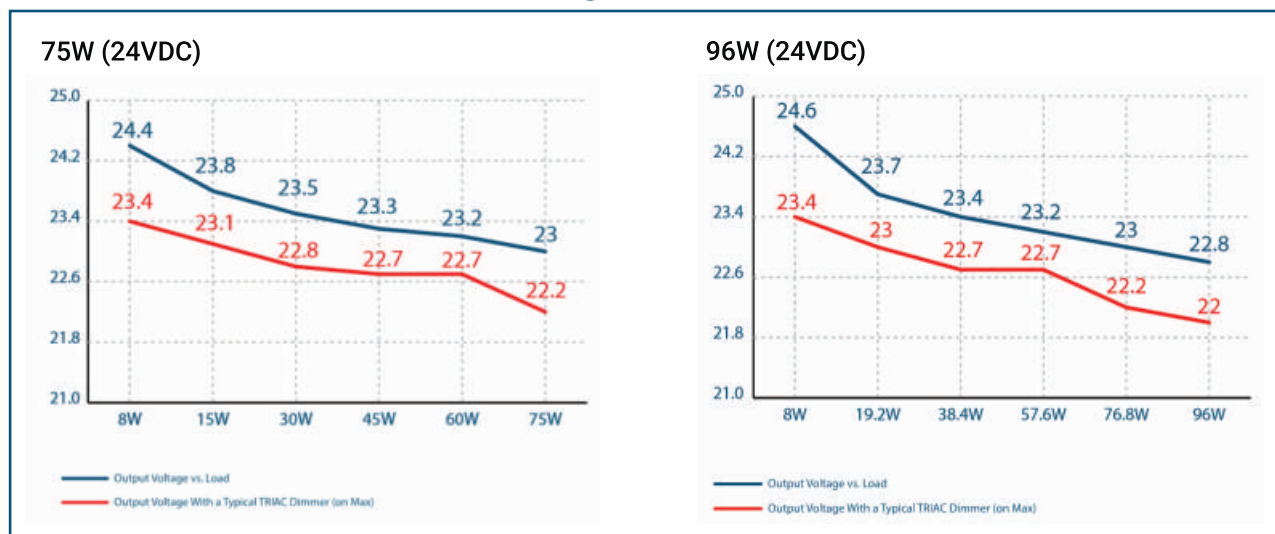
60W (24VDC)



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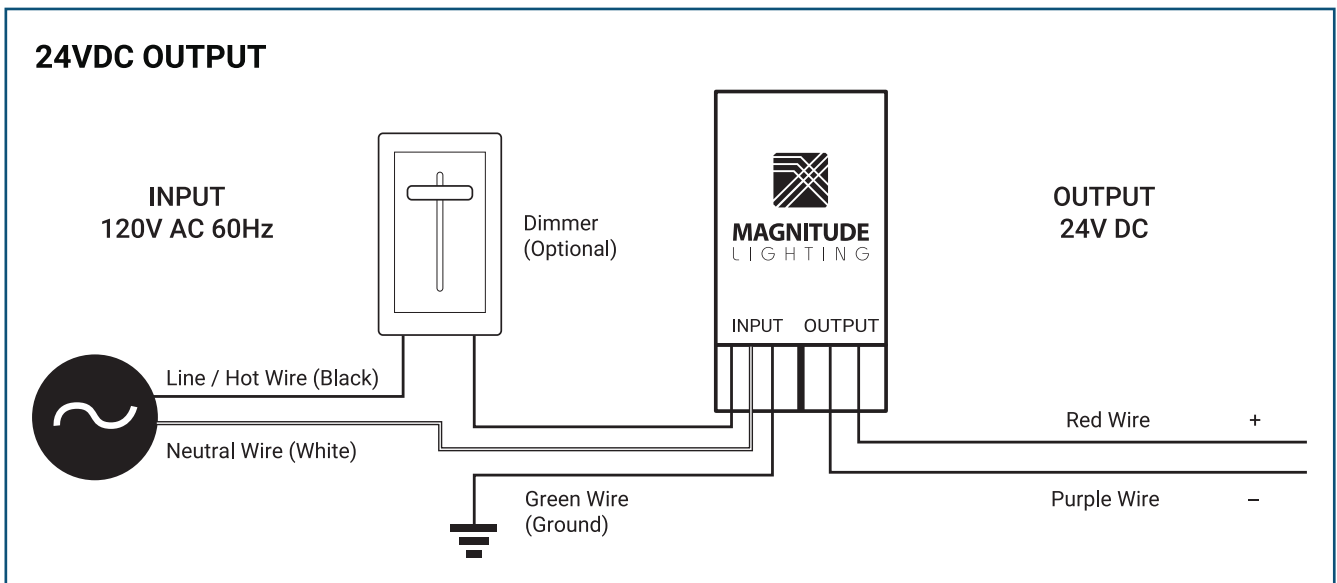
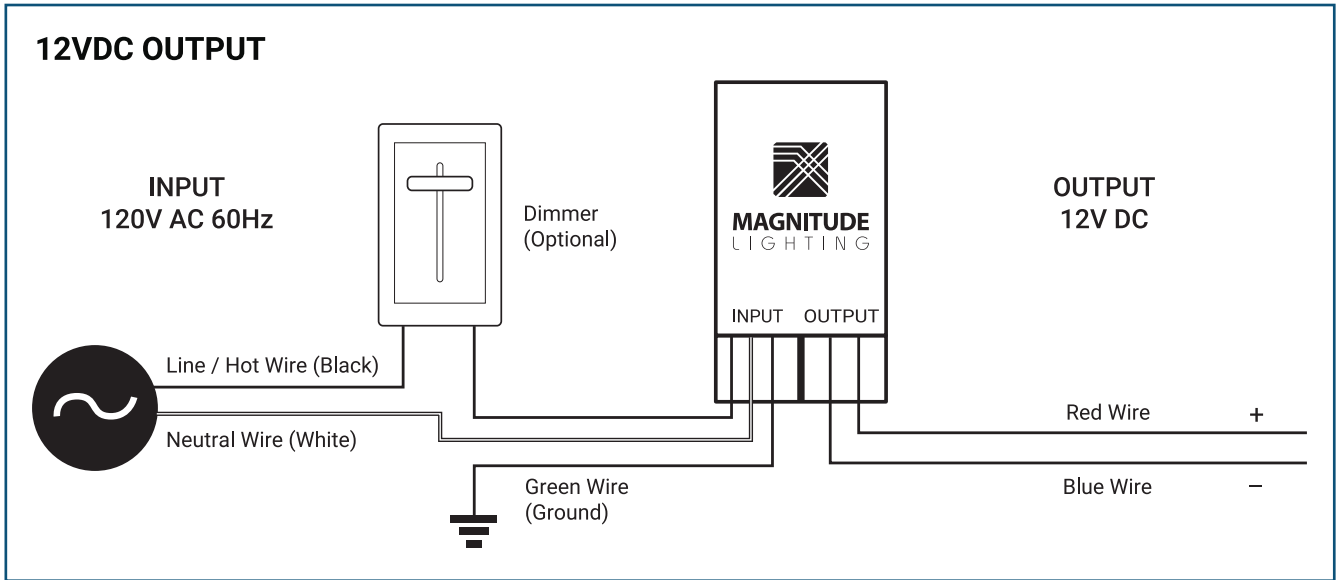
Load Regulation, *Continued*



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Wiring Diagrams



* Parameters tolerance +/- 7%